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Journal of the Society of Arts.

FRIDAY, AUGUST 30, 1861.

GATHERING OF MEMBERS OF INSTITUTIONS AT THE CRYSTAL PALACE.

This gathering took place on Tuesday last, the 27th instant, in accordance with a Resolution passed at the last Conference.

The principal Railway Companies had arranged for excursion trains, which brought up large numbers of persons, more particularly from the northern counties. There were 8,116 persons present, of whom 7,268 were admitted on payment.

At three o'clock, Mr. B. Waterhouse Hawkins gave a lecture "On the Gorilla and other Monkeys as contrasted with Man;" it was delivered in the Concert-room, before a numerous audience. The subject, which is usually treated in a series of lectures, could only be dealt with in a comparatively cursory manner, but Mr. Hawkins, in the short time at his disposal, placed the leading points clearly before the audience, illustrating them by rapid and able sketches on the black board.

INTERNATIONAL EXHIBITION OF 1862.

The Council beg to announce that the Guarantee Deed is now lying at the Society's House for signature, and they will be much obliged if those gentlemen who have given in their names as Guarantors, will make it convenient to call there and attach their signatures to the Document. Signatures for sums amounting in the aggregate to £427,000, have been attached to the Deed.

The Contractors for the Building, Messrs. Kelk and Lucas, have liberally presented each Guarantor with an ivory ticket, admitting the holder and friend to view the works every Saturday afternoon till February next.

The following arrangements, in addition to those already published, have been made in foreign countries and the Colonies:—

GRAND DUCHY OF MECKLENBURG STRELITZ.

The following are the Commissioners:—Senator Ahlers, Professor Dr. Phil. Kurtze, Mr. Peters and Mr. Kapheim, having their office at New Brandenburg.

NEW SOUTH WALES.

Mr. Edward Hamilton has been appointed the London Commissioner for this Colony.

THE MAURITIUS.

A Commission is being appointed here, and a Commissioner to represent it in London will shortly be named.

HONG KONG.

The following are the Commissioners:—Mr. Mercer, Colonial Secretary, *Chairman*; Mr. J. J. Mackenzie, (Messrs. Dent and Co.); Mr. J. D. Gibb (Messrs. Gibb, Livingstone, and Co.); Mr. Walkinshaw (Messrs. Turner and Co.); and Dr. Kane.

Mr. Patrick Campbell, of the Oriental Bank Corporation, will represent the Commission in London.

SUGGESTIONS FOR CLASS 30.

The Sub-Committees appointed by the exhibitors of Class 30, feeling that it is the duty of every one, each in his own branch of manufacture, to strive to the best of his ability to sustain not only his individual reputation, but by his skill, taste, ingenuity, and enterprise, to assist in supporting the character of his country, by the production of specimens rivalling those of other countries, have issued the following suggestions, which they are aware are unnecessary for many, but they think may be useful generally:—

The specialities of Class 30—namely, cabinet work, upholstery, decorative painting, relief ornament, and paperhangings—require very particularly the exercise of sound taste and judgment in the preparation of the designs; and the productions of this class will evidence, perhaps more than any other, the degree of progress in manufacturing art since the Exhibition of 1851. Reflection on the specimens which were prepared for that occasion, will afford to those who remember them valuable lessons of right and wrong—of what to study, and what to avoid.

In cabinet work especially it is most desirable to direct our attention to objects of utility; to seek to give value to these by well-considered proportion and tasteful arrangement; and to encourage our workmen to exercise their utmost skill in applying to them the perfection of finish in workmanship. The designers should be careful to construct them on sound principles; to let the construction be evident; to avoid redundancy of ornamental carving, which should never be coarse or gross, but be kept so subdued as not to interfere with the main features of the design. The mouldings should be in due proportion, and of profile suitable to the style; the delicacy and finish of these add greatly to the artistic value of a piece of furniture. It cannot be too strongly enforced that a chest of drawers, of simple, good, design and of first-rate finish, is preferable as an object for exhibition to a gaudy commode, covered with coarse and ill-assorted carving.

In decorative furniture, inlaid woods offer an elegant means of ornamentation, not by confused masses of flowers and ribbons, but by well-considered designs, purely drawn, and often consisting of simple lines, tastefully interlaced, as in some of the early Italian examples.

When brass or bronze ornaments are applied to cabinet work, they should be of an appropriate design, and well adapted to their place; not stuck on without any meaning or expression merely to make a show. They should be used moderately, and at all times be well finished.

In fine, let the designers of specimens of cabinet work for this Exhibition above all things avoid extravagances. They are generally condemned and rarely purchased. Let them also avoid that facile and vulgar style commonly called Louis Quatorze, which it is not, but is more justly denominated the rococo, a hodge-podge of graceless scrolls and *outré* shellwork. Let them aim at purity of style, of whatever period; and however important may be their work, they will find that simplicity, combined with tasteful elegance, will be most likely to lead to success.

In decorative painting and paperhangings the same rules of art may be repeated; do not attempt these said extravagances; be guided by the principles of good taste. Whatever is attempted, let it be first-rate of its kind; it is far better to do a simple thing well than to attempt an elaborate one and fail. Our imitators of woods and marbles stand pre-eminent; let them sustain their reputation by adhering to nature, not going beyond it. Grainers very

often delight in copying specimens of woods of a coarse and gaudy character, which are never employed in good cabinet work; rich, but more quiet patterns of wood are preferred.

In the preparation of the designs for paperhangings of a decorative character, purity of style is particularly to be desired, and artists should be engaged who can be depended on for this. Our French competitors exercise great judgment, good sense, and liberality in their employment of artists, whose skill and taste they make use of far more than we do. By this means they have raised the standard of excellence of their paperhangings, and obtained a very important export trade, of which by well-directed energy, we may hope to obtain a larger share. A hundred years ago our decorative paperhangings surpassed those of the French, and in some respects exceeded in artistic excellence many of the productions of this day. In the more simple designs, harmonious arrangements of colour are a most important consideration. Very pleasing decorative effects may be obtained by tasteful borders; but these should be carefully drawn, properly coloured, and well contrasted to the papers that form the panels.

In every way it is most essential to bear in mind this important precept,—That the proper application of tasteful art adds an appreciable value to all manufacturing products.

THE CAPE COLONY.

The Cape Monitor says:—

At the meeting of the Cape Town Chamber of Commerce, on June 21. Mr. R. M. Ross moved, "That this Chamber tender its aid and co-operation for the purpose of the International Exhibition of 1862, to the commissioners appointed by his Excellency the Governor; and that a committee be appointed to confer with the commissioners on the mode to be adopted for securing an adequate exhibition of colonial produce, and for collecting correct information respecting the capabilities of this colony for supplying materials suitable for manufacturing purposes."

A committee, consisting of Messrs. Ebdon, Watson, and Ross, was accordingly appointed. On a previous occasion we endeavoured to enforce the claims which the International Exhibition of 1862 should have upon the colony, and we have only to repeat now what we said then. The effort to represent the products and manufactures of the colony at that Exhibition should be thoroughly hearty. No half-measures will suffice. Better leave the colony unrepresented at all than do it as it was done on the former occasion. Parliament must be requested to vote means. Without money, the committee—large and influential as it is, and the sub-committees—however active they may be, will fail to do the colony justice.

NEW BRUNSWICK.

The New Brunswick Courier says:—

The Nova Scotians are waking up to the necessity of being well represented at the great Industrial Exhibition in London in 1862. In addition to many other movements the Exhibition Commissioners have offered a prize of 400 dollars for the best Essay on "Nova Scotia and her Resources." They are to be forwarded to the Secretary of the Commissioners, accompanied by sealed notes, containing the names of the writers, on or before the 31st January.

The Nova Scotia Literary and Scientific Society offer a prize of 400 dollars for the best Essay to be sent in before the expiration of two years from the present date. The offering of this prize is owing to the patriotic liberality of a member of the Society.

The following letter has been addressed to the Editor of the *Times*:—

"SIR,—I perceive in the *Journal of the Society of Arts*, of June 28, that provision is made for an International Exhibition, to be held in London in 1872.

"May I, in your columns, state reasons in support of the two proposals I now make?"

"1. That the Third Exhibition be fixed for 1868.

"2. That an International Exhibition be of sexennial recurrence in London.

"The great benefits derived from Exhibitions during the last twelve years are comparative as well as positive. They not only give to trade the stimulus of competition, and an opportunity to nations of amicable intercourse and rivalry, but they erect the landmarks of industry and commercial development. The Exhibition of 1851 served as an index to the actual state of human industry. The Exhibition of 1862 will be the pedometer of human progress. It is in this light that I could wish to see the more frequent recurrence of these great international examinations.

"It may be argued that public interest might thus be lessened. This misgiving could scarcely be justified. The Exhibition of 1851 was not detrimental to that of Paris in 1855, nor has that event dampened the ardour of contributors to the Exhibition of 1862. On the 7th of August I read that 2,686 applications had been made for space by French exhibitors, against 1,700 who exhibited in 1851. Five Paris houses are preparing goods weighing 736 tons, against 730 tons, the total weight of French produce exhibited on the former occasion.

"In the present rapidity of human development ten years is too long a lapse between these international reviews. I have named six years as the period of recurrence, so as to allow France, by a similar sexennial arrangement, to reduce the intervals to three years. Think, Sir, how much will be accomplished in six years, or in three years, at the present *momentum*. The railroads of Italy will open out fields of industry almost unexplored, as well as a new and shorter route to the East. The settlement of the Roman and Venetian questions will release Austria from her present financial difficulties. The completion of the serf emancipation will enable Russia to cultivate more closely her tendencies to commercial enterprise. America will probably be relieved from the dilemma which now hampers her energies. Railways in India will render available that vast field of produce. Our new relations with China will alone furnish materials for an Exhibition, while increased facilities of transit through the world are daily, hourly, bringing within the circle of general markets, provinces and kingdoms heretofore almost unknown to trade. In six years existing political difficulties will probably be solved. In ten years they may break out afresh.

"Such are the grounds on which I rely for support for Sexennial Exhibitions. I contend, however, that the Exhibitions themselves would increase in value equally with the benefits they would diffuse. If they are of value as gauges of civilisation, how much greater would that value become if measured at different periods by the same eyes, and compared by the same intellects? Who will deny the advantages to be reaped in 1862 from the experience of Lord Granville, Mr. Dilke, and others, who took part in the Exhibition of 1851.

"Ten years is a long space in existence. It is too long to calculate on life or leisure. The sexennial plan would make the Exhibition an institution, and not, as at present, an episode. It would not depend for management wholly on the occasional labours of those who, however skilled, are still amateurs, nor for funds on the liberality of guarantors, however enterprising. By giving the Exhibition a permanent organisation we should be founding a system, a profession, a school, to discover, analyse, and expound those general laws on which reposes the prosperity of nations, to maintain and continue into future generations the traditions and provisions of those illustrious men who have applied to the human race that principle of competition heretofore confined to smaller communities.

"Nor would the central establishment, if created, find its task too easy in the intervals of International Exhibitions.

tions. The system should be carried into divisions and sub-divisions. In Belgium and France Exhibitions are held, I believe, annually in each department or province. It is thus that minute industries are developed. During the sexennial intervals it would be to these minor exhibitions that the central institution should devote its energies. County exhibitions could be held in London, or members of the institution might be deputed to organize them, if invited, in counties. Exhibitions for the British Isles should be held in annual rotation in London, Edinburgh, Dublin, and other principal cities of the empire. The building in London might also be made available for colonial exhibitions and for the display of new inventions, native or foreign.

"It is needless to dwell on the advantage to accrue from a scheme embracing every branch of the human intellect, and susceptible of daily improvement, constant development, unceasing and varied combinations. If I have not addressed this letter to the Society of Arts, it is because I wish to obtain for the scheme a wider and less technical discussion. If this communication is anonymous, it is from no desire to withhold my co-operation from the preparation of a project in detail.

"I am, Sir, your obedient servant,
 "A LEVANTINE COMMISSIONER FOR 1862.
 "The Levant, August 19th, 1861."

ALPHABETICAL LIST OF THE TRADES OF THE UNITED KINGDOM.

H. M. Commissioners for the International Exhibition of 1862 have caused to be prepared an alphabetical and classified list of all the trades in the United Kingdom. This list has been compared with the applications for space already received, and is here re-produced, in order to show what trades are as yet unrepresented in the forthcoming Exhibition. Trades which have not up to this time offered to exhibit are marked with an *.

It must not be supposed that, because no artificer in any particular trade has sent in an application, therefore the objects of that industry will have no place in the building. For instance, scissors will be exhibited by cutlers, although no scissorsmaker (regarding and styling himself only as a scissorsmaker) intends to exhibit. So gold chains will be shown by goldsmiths, though no gold chain maker has yet come forward.

The last day on which applications for space can be received is the 30th of September, and H. M. Commissioners have determined strictly to entertain no fresh applications after that date. Exhibitors' productions will be placed in the following forty Classes:—

SECTION I.

1. Mining, Quarrying, Metallurgy, and Mineral Products.
2. Chemical Substances and Products, and Pharmaceutical Processes.
 - a. Exhibitors of Chemical Products.
 - b. Exhibitors of Medical and Pharmaceutical Processes.
3. Substances used for food.
 - a. Exhibitors of Agricultural Produce.
 - b. Exhibitors of Drysaltery, Groceries, &c.
 - c. Exhibitors of Wines, Spirits, Beer and other drinks, and Tobacco.
4. Animal and Vegetable Substances used in Manufactures.

- a. Exhibitors of Oils, Fats and Wax, and their Products.
- b. Exhibitors of other Animal Substances used in Manufactures.
- c. Exhibitors of Vegetable Substances used in Manufactures, &c.
- d. Exhibitors of Perfumery.

SECTION II.

5. Railway Plant, including Locomotive Engines and Carriages.
6. Carriages not connected with Rail or Tram Roads.
7. Manufacturing Machines and Tools.
 - a. Exhibitors of Machinery employed in Spinning and Weaving.
 - b. Exhibitors of Machines and Tools employed in the Manufacture of Wood, Metal, &c.
8. Machinery in general.
9. Agricultural and Horticultural Machines and Implements.
10. Civil Engineering, Architectural, and Building Contrivances.
 - a. Exhibitors of Civil Engineering and Building Contrivances.
 - b. Exhibitors of Sanitary Improvements and Constructions.
 - c. Exhibitors of objects shown for architectural beauty.
11. Military Engineering, Armour and Accoutrements, Ordnance and Small Arms.
 - a. Exhibitors of Clothing and Accoutrements.
 - b. Exhibitors of Tents and Camp Equipages.
 - c. Exhibitors of Arms, Ordnance, &c.
12. Naval Architecture—Ships' Tackle.
 - a. Exhibitors of Ship Building for purposes of War and Commerce.
 - b. Exhibitors of Boat and Barge Building, and Vessels for amusement, &c.
 - c. Exhibitors of Ships' Tackle and Rigging.
13. Philosophical Instruments, and processes depending upon their use.
14. Photographic Apparatus and Photography.
15. Horological Instruments.
16. Musical Instruments.
17. Surgical Instruments and appliances.

SECTION III.

18. Cotton.
19. Flax and Hemp.
20. Silk and Velvet.
21. Woollen and Worsted, including Mixed Fabrics generally.
22. Carpets.
23. Woven, Spun, Felted, and Laid Fabrics, when shown as specimens of printing or dyeing.
24. Tapestry, Lace, and Embroidery.
25. Skins, Fur, Feathers, and Hair.
 - a. Exhibitors of Skins and Furs.
 - b. Exhibitors of Feathers.
 - c. Exhibitors of Manufactures from Hair.
26. Leather, including Saddlery and Harness.
 - a. Exhibitors of Leather.
 - b. Exhibitors of Saddlery, Harness, &c.
 - c. Exhibitors of Manufactures generally made of Leather.
27. Articles of Clothing.
 - a. Exhibitors of Hats and Caps.
 - b. Exhibitors of Bonnets and General Millinery.
 - c. Exhibitors of Hosiery, Gloves, and Clothing in general.
 - d. Exhibitors of Boots and Shoes.
27. Paper, Stationery, Printing, and Bookbinding.
 - a. Exhibitors of Paper, Card, and Millboard.
 - b. Exhibitors of Stationery.
 - c. Exhibitors of Plate Letterpress, and other modes of Printing.

- d.* Exhibitors of Bookbinding.
 29. Educational Works and appliances.
a. Publishers.
b. Apparatus Makers.
c. Toy and Games Manufacturers.
d. Exhibitors of specimens and illustrations of Natural History.
 30. Furniture and Upholstery, including Paper Hangings and Papier Maché.
a. Exhibitors of Furniture and Upholstery.
b. Exhibitors of Paper Hangings and General Decorations.
 31. Iron and General Hardware.
a. Exhibitors of Iron and Steel Manufactures.
b. Exhibitors of Manufactures in Brass and Copper.
c. Exhibitors of Manufactures in Tin, Lead, Zinc, Pewter, and General Braziers.
 32. Steel, Cutlery and Edge Tools.
a. Exhibitors of Steel Manufactures.
b. Exhibitors of Cutlery and Edge Tools.
 33. Works in Precious Metals, and their imitations, and Jewellery.
 34. Glass.
a. Exhibitors of Stained Glass, and Glass used in buildings.
b. Exhibitors of Glass for Household use and fancy purposes.
 35. Pottery.
 36. Manufactures not included in previous Classes.
a. Exhibitors of Dressing Cases, and Toilette articles.
b. Exhibitors of Trunks, and Travelling apparatus.

SECTION IV.

37. Architecture. Architectural Models and Designs.
 38. Paintings in Oil and Water Colours, and Drawings.
 38*a.* Art-Designs for Manufactures.
 39. Sculpture, by various processes; Models, and Modelling; Die Sinking, and Intaglios; Fine Art in repoussé work.
 40. Etchings and Engravings.

LIST OF TRADES.

- *Accordion makers, 16
 Account book manufacturers, 28 *d*
 Accoutrement makers, 11 *a*
 Aërated water manufacturers, 3 *c*
 Agricultural engineers, 9
 Agricultural implement makers, 9
 *Alabaster warehousemen, 1
 *Albata refiners, 1
 *Albumenized paper makers, 14
 Alkali manufacturers, 2 *a*
 *Alpaca manufacturers, 21
 *Alpaca spinners, 21
 Alum manufacturers, 2 *a*
 Ammonia manufacturers, 2 *a*
 Ammunition manufacturers, rifle, 11 *c*
 Analytical chemists, 2 *a*
 Anastatic printers, 28 *c*
 Anatomical machinists, 17
 *Anatomical preparers, 17
 Anchor manufacturers, 12 *c*
 Anchorsmiths and chain cable makers, 12 *c*
 *Annatto manufacturers, 2 *a*
 *Antigropelos manufacturers, 27 *d*
 *Antimony refiners, 1
 *Antique furniture makers, 30 *a*
 Anvil and vice manufacturers, 31 *a*
 *Apothecaries, 2 *b*
 *Aquaforis makers, 2 *a*
 Aquaria makers, 29 *d*
 Archery tackle makers, 29 *c*
 Architectural modellers, 10 *c*
 *Armourers, 11 *c*
 *Army accoutrement makers, 11 *a*
 *Army cloth manufacturers, 21
 *Artificial eye makers, 17
 Artificial florists, 27 *c*
 Artificial flower makers, 27 *c*
 Artificial leg and arm makers, 17
 Artificial stone makers, 10 *a*
 Artists' colourmen, 29 *b*
 Artists in hair, 25 *c*
 *Ash merchants, 1
 *Ash makers, 31 *a*
 *Asphalte manufacturers, 10 *a*
 *Asphaltum manufacturers, 2 *a*
 Assayers, 33
 Auger manufacturers, 32 *b*
 Awl blade makers, 32 *b*
 Axletree makers, 6
 *Back and vat makers, 7 *b*
 Backgammon board makers, 29 *c*
 *Bacon curers and factors, 3 *b*
 Bagatelle table makers, 30 *a*
 *Bag makers, 19
 *Bag pipe makers, 16
 *Baize manufacturers, 21
 *Baize painters, 23
 Bakers, 3 *b*
 *Bakers' (biscuit) tool makers, 7 *b*
 Baking powder makers, 3 *b*
 *Ball and balloon makers, 29 *c*
 *Band and galloon makers, 20
 Bandanna manufacturers and printers, 20
 *Bandbox makers, 36 *b*
 *Band spinners, 20
 *Bank note paper makers, 28 *a*
 *Bar fitters, 31 *c*
 *Barge builders, 12 *b*
 *Bark factors and merchants, 4 *c*
 *Barley makers, patent, 3 *b*
 *Barometer and thermometer makers, 13
 Barrow makers, 6
 Basket makers, 4 *c*
 Bassinette trimmers, 24
 *Bath chair manufacturers, 6
 Bath makers, 31 *c*
 Bath manufacturers and fitters, 31 *c*
 *Bayonet manufacturers, 11 *c*
 Bead and bugle makers and importers, 34 *b*
 *Beaver cutters, 27 *a*
 *Bed and mattress makers, 30 *a*
 *Bed feather manufacturers, 25 *b*
 *Bed lace makers, 24
 *Bed pillar carvers, 30 *a*
 *Bed sacking makers, 19
 *Bed screw makers, 31 *a*
 *Bedstead castor makers, 31 *a*
 *Bedstead makers, 30
 Bedstead makers, iron, 31 *a*
 Beer engine makers, 8
 Beer machine makers, 8
 *Beetle finishers, 19
 Bell founders, 31 *b*
 *Bell furniture makers, 24
 Bellhangers, 31 *b*
 Bellows makers, 31 *a*
 *Bellows pipe makers, 31 *a*
 Bell rope makers, 30 *a*
 Belt makers, 27 *c*
 *Bent timber manufacturers, 4 *c*
 *Berlin black manufacturers, 2 *a*
 Billiard and bagatelle table makers, 30 *a*
 *Billiard ball makers, 4 *b*
 *Billiard table cloth makers, 21
 *Birch broom makers, 4 *c*
 Bird and beast stuffers, 29 *d*
 Bird cage makers, 31 *b*
 Biscuit bakers, 3 *b*
 *Biscuit bakers—ship, 3 *b*
 *Biscuit bakers' tool makers, 7 *b*
 *Bit makers, 31 *a*
 *Black borderers—paper, 28 *a*
 Blacking manufacturers, 2 *a*
 Black lead manufacturers, 2 *a*
 Black lead pencil makers, 28 *b*
 *Black manufacturers—Frankfort, 2 *a*
 *Black ornament makers, 33
 *Black pudding makers, 3 *b*
 Black reviver makers, 2 *a*
 Blacksmiths, 31 *a*
 *Blade makers, 32 *b*
 Blanket manufacturers, 21
 *Blanket yarn spinners, 21
 *Bleachers—cotton, 18
 *Bleachers—flax, 19
 *Bleaching liquid makers, 2 *a*
 Bleaching powder makers, 2 *a*
 *Blind makers—wire, 31 *a*
 *Blind spring roller makers, 31 *a*
 *Block and pump makers, 8
 *Blond cleaners, 23
 *Blood driers, 4 *b*
 *Blouse manufacturers, 27 *c*
 *Blowing machine makers, patent, 8
 *Blowpipe makers, 13
 Blue manufacturers, 2 *a*
 *Blue verditer makers, 2 *a*
 Boat and barge builders, 12 *b*
 *Bobbin manufacturers, 7 *a*
 *Bobbin turners, 7 *a*
 *Bocking manufacturers, 31 *a*
 *Bodkin makers, 31 *a*
 Boiler and oven manufacturers, 31 *a*
 *Boiler makers, 8
 Bolt and screw makers, 31 *a*
 *Bone boilers, 4 *b*
 *Bone button makers, 4 *b*
 *Bone grinders, 4 *b*
 *Bone turners, 4 *b*
 *Bonnet block, and drapers' and milliners' stand makers, 27 *b*
 *Bonnet cleaners, 27 *b*
 *Bonnet pressers, 27 *b*

- *Bonnet shape makers, 27 *b*
 *Bonnet wire makers, 31 *a*
 *Book and card edge gilders and marblers, 28 *d*
 Bookbinders, 28 *d*
 Bookbinders' cloth makers, 21
 *Bookbinders' plough knife makers, 32 *b*
 *Bookbinders' press makers, 7 *b*
 Bookbinders' tool cutters and engravers, 7 *b*
 Book edge, lock and clasp makers, 31 *b*
 Boot and shoe makers, 27 *d*
 *Boot binders, 27 *d*
 *Boot blockers, 27 *d*
 *Boot closers, 27 *d*
 *Boot hook makers, 31 *a*
 *Boot lace makers, 27 *d*
 *Boot peg makers, 27 *d*
 *Boot top makers, 27 *d*
 Boot tree makers, 27 *d*
 Borax manufacturers, 2 *a*
 Botanical collectors, 29 *d*
 *Bottle jack makers, 31 *b*
 *Bottle makers, stone, 35
 *Bottle manufacturers, 34 *c*
 *Bottle mould makers, 7 *b*
 *Bottom plate manufacturers, 31 *a*
 *Bougie and catheter makers, 17
 *Bowl manufacturers, 4 *c*
 *Box and trunk clip manufacturers, 31 *a*
 *Box makers, 4 *c*
 Box mounters makers, 31 *a*
 Brace and belt makers, 27 *c*
 *Brace bit manufacturers, 31 *a*
 *Brace bit polishers, 31 *a*
 *Braid machine makers, 7 *b*
 *Braid manufacturers, 24
 Brand mark makers, 31 *a*
 *Brass bedstead makers, 31 *b*
 *Brass casters, 31 *b*
 *Brass dressers, 31 *b*
 Brass finishers, 31 *b*
 Brass founders, 31 *b*
 *Brass founders' iron forgers, 7 *b*
 *Brass founders' spike makers, 7 *b*
 *Brass letters (for fitting on glass) makers, 31 *b*
 *Brass manufacturers, 31 *b*
 *Brass plate makers, 31 *b*
 *Brass platers, 31 *b*
 *Brass refiners, 1
 *Brass rule cutters, 13
 *Brass tap founders, 31 *b*
 *Brass tube makers, 31 *b*
 *Brass turners, 31 *b*
 *Brass wire weavers, 31 *b*
 Braziers, 31 *b*
 *Braziers' furniture makers, 7 *b*
 *Breeches makers, 27 *c*
 Brewers' 3 *c*
 *Brewers' utensil makers, 7 *b*
 Brick and tile machine makers, 7 *b*
 Brick and tile makers, 10 *a*
 *Bricklayers, 10 *a*
 *Brick mould makers, 7 *b*
 Bridle bit, stirrup, and spur makers, 31 *c*
 Bridle cutters, 26 *b*
 *Bright lock manufacturers, 31 *a*
 *Bristol board makers, 28 *a*
 Britannia metal manufacturers, 31
 *British cordial makers, 3 *c*
 *British lace makers, 24
 *British plate manufacturers, 31 *c*
 British wine manufacturers and dealers, 3 *c*
 Bronze powder makers, 2 *a*
 *Bronzists, 31 *b*
 Broom makers, 4 *c*
 *Broom stick makers, 2 *a*
 *Brown stone potters, 35
 Brush makers, 25 *c*
 *Brush makers' bit makers, 7 *b*
 *Brush manufacturers (circular), 25 *c*
 *Bucket handle makers, 31 *a*
 *Buck and stag horn haft cutters, 4 *b*
 *Buckle makers, 31 *a*
 *Buckle platers, 31 *a*
 *Buckle tongue makers, 31 *a*
 *Buckram manufacturers, 19
 *Buff and glazer manufacturers, 7 *b*
 *Buffing ball manufacturers, 7 *b*
 *Bugle and trumpet makers, 16
 Buhl cutters, 30 *a*
 Builders, 10 *a*
 *Builders, horticultural, 9
 *Builders of iron houses, 10 *a*
 *Builders of portable houses, 10 *a*
 *Bullet mould makers, 31 *a*
 *Bunting manufacturers, 21
 *Burnished silver manufacturers, 33
 *Burnishers, steel, 32 *a*
 *Butchers, 3 *b*
 *Butchers' steel manufacturers, 32 *a*
 *Butter print cutters, 4 *c*
 *Button card manufacturers, 28 *a*
 *Button hook manufacturers, 31 *a*
 Button manufacturers, 31 *a*
 *Button mould and counter turners, 4 *b*
 Cabinet brass founders, 31 *b*
 *Cabinet carvers, 30 *a*
 Cabinet case makers, 30 *a*
 *Cabinet inlayers, 30 *a*
 *Cabinet liners, 30 *a*
 *Cabinet lock makers, 31 *a*
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 *Wire rope makers, 31 *a*
 *Wire workers and weavers, 31 *a*

*Wire workers' machine makers 7 b	*Woollen cord manufacturers, 21	*Worsted waste dealers, 4 b
*Wood box maker, 4 c	*Woollen dyers, 23	Writers and gilders on glass, 34 a
*Wood bung manufacturers, 4 c	Woollen machine makers, 8	Writers and grainers, 30 b
*Wood busk makers, 4 c	Woollen manufacturers, 21	Writing desk makers, 36 a
*Wood card makers, 7 a	*Woollen printers, 23	Writing fluid makers, 28 b
Wood carvers, 10 c	Woollen spinners, 21	
*Wood cutters, 4 c	*Woollen stuff manufacturers, 21	*Yeast dealers, 3 b
*Wooden hoop makers, 4 c	*Woollen waste dealers, 4 b	*Yeast importers—German, 3 b
*Wood grinders, 4 c	*Woollen weavers, 21	
*Wood letter cutters, 28 c	*Woolley teeth makers 7 a	*Zaffre refiners, 1
Wood turners, 4 c	Wool merchants, 4 b	*Zebra dress makers, 21
*Wood type cutters, 28 c	Wool rug manufacturers, 21	*Zinc manufacturers, 31
*Wood carders, 4 b	*Wool sheet manufacturers, 19	Zinc merchants, 1
*Wool combers, 4 b	Wool staplers, 4 b	*Zincographic artists and door plate
*Wool comb makers, 7 a	*Work box makers, 36 a	makers, 31 c
*Wool and threshing sheet makers	*Worm makers, 7 b	*Zincographic printers, 28 c
*Woollen card makers, 7 a	Worsted dyers, 23	Zinc plate makers, 31 c
*Woollen cloth manufacturers, 21	*Worsted manufacturers, 21	Zinc workers and drawers, 31 c
*Woollen cloth waterproofers, 21	Worsted spinners, 21	Zoological artists, 29 d

Home Correspondence.

INTERNATIONAL EXHIBITIONS AND FREE TRADE.

SIR,—Amongst the many advantages which have resulted from International Exhibitions, and probably the most important, is the action they have had on the public mind in promoting the relief of commerce from the incubus of fiscal impediments. To this I took occasion to allude as long since as May, 1857, when I had the honour to read a paper before the Society, "On the Brussels Congress of 1856, and its bearing on the progress of International Commerce," in which the following passage occurs, for which I cannot claim any special or occult merit, as the result therein foreshadowed or inferred could only be a question of time:—

"It is probable that the greatest continental progress in the direction of free trade may date from the International Exhibitions of 1851, in London, and of 1855, in Paris. In both, but particularly in the latter, many articles of usefulness and luxury, the produce of the skill and industry of other countries, were for the first time seen, of which native spectators had been previously permitted only a kind of traditionary knowledge. The more intimately many foreign and local visitors became acquainted with the varied contents of these temporary emporiums of manufactured property, the more they were led to inquire to what repressive policy they were to attribute the ignorance in which they had been so long kept, of the productive industry and artistic talent of surrounding nations, and whether the time had not arrived when the barriers might be removed and the ports freely opened to the products of the world. These results had been foreseen by the pioneers of these Exhibitions, and constituted a powerful inducement to make them as complete as money, influence, and ability could effect."

Little did I think, when I penned this paragraph, that this progress would have been so rapid, and that already, as one result, we should have the inestimable benefit of a commercial treaty between England and France, by which in the latter country prohibition is prohibited, heavy duties are materially reduced, and the greater part practically or absolutely abolished. But this is not all, for, as a sort of corollary, we find that a similar treaty has been entered into between France and Belgium, and that others are under diplomatic discussion between France and the new kingdom of Italy, and between France and Prussia.

Such has ever been my confidence in the canon or principle of unfettered commercial intercourse, and of the advantages of its complete adoption to the interests of social, economic, and scientific progress, that if these Exhibitions

had had no other success, the conquest they have achieved over long-cherished and mischievous national prejudices, would be a sufficient reward for the labour, anxiety, and expense bestowed upon them.

I am, &c.,

THOMAS WINKWORTH.

Gresham Club, August 27, 1861.

Proceedings of Institutions.

LEEK LITERARY AND MECHANICS' INSTITUTION.—The Twenty-fourth Annual Report states that the number of members are as follows:—Life, 11; honorary, 12; first and second class, 223; and one donor (W. Challinor, Esq.). The reading-room has been well attended during the past year, being supplied with newspapers, publications, &c. From the library the issue of books for the year has been 6,990, and the renewals 1,362. Few new books have been added during the past year, as the income of the Society in its present state does not permit of their purchase, the incidental expenses absorbing the greater portion of the members' subscriptions; but some donations of books have been received. In consequence of the considerable pecuniary loss that has usually attended the engagement of lecturers, &c., the Directors have not felt justified in procuring the services of any other gentleman than Mr. Walter Montgomery, who gave two readings, one miscellaneous and one of "Macbeth." The penny bank still continues to be much used, and there can be no doubt that by its means a habit of saving will be encouraged which will be of great benefit to the depositors. The number of accounts opened during the last year has been 743. The Directors exceedingly regret that the late attempt made by them to create funds to erect a suitable building, which would have been not only a credit to the Institution but an ornament to the town, did not meet with that support from the members and inhabitants of the town generally, which, from the usefulness of the object, they might reasonably have expected. The balance-sheet shows that the expenditure has been £160 6s. 6d., and that there is a balance due to the Treasurer of £10 4s.

PORTSMOUTH AND PORTSEA ATHENÆUM AND MECHANICS' INSTITUTE.—In the thirty-fifth annual report of this Institute the Committee state, that during the past year the number of members has steadily increased, whilst the financial condition of the Society is better by at least £100 than in the preceding sessions. The lectures, which have been well received, embraced the following subjects:—Opening Soirée, interspersed with addresses, Portsmouth

Musical Association; "The Genius and Writings of Dickens," Mr. Paton; "Competitive Examinations, with hints for success in them," Mr. Stockman; "Poets of the Present Age," R. W. Matson, M.A.; "Legends and Lyrics," with musical illustrations by Mr. R. J. Wyatt, Mr. J. Slight; "Biographical Sketches of Shakspeare," Mr. Henderson; "Electricity and Magnetism," Mr. Weeks; "The Electric Telegraph," Mr. Weeks; "Biographical Romance," Rev. E. Paxton Hood, M.A.; "The Writings of Carlyle," Mr. Maxwell; "Musical Entertainment," Mr. and Mrs. G. Cooper; Two Musical Entertainments, Mr. Field; "Sayings and doings of the Anglo Saxons," Mr. G. Dawson; "Ancient Coins and Medals," Mr. Stanesby; "The Glaciers of Switzerland," Rev. E. L. Berthon, M.A.; "Chemistry," Mr. Hay. The Industrial and Fine Arts Exhibition, aided by the most generous co-operation, and having for its object the improvement and advance of the rising generation, proved a crowning success. During the brief time it continued, it was visited by nearly ten thousand persons, who were delighted with the beautiful models and other articles exhibited, and by the incidental addresses delivered by the professors of its various departments, as well as the musical performances proffered by local artists and amateurs. The funds of the Institute were improved through its means by the addition of £100. The Mutual Instruction Classes progress steadily. Mr. Stockman, to whom the thanks of the Committee are justly due, reports favourably of his department, several members of which successfully passed the examination, and new members are continually joining, in anticipation of a similar result. The singing class, conducted by Mr. H. Jones, whose energetic services the Committee gratefully acknowledge, steadily advances, and promises to form the nucleus of an instrumental music class, or of a musical association in union with the Athenæum. The Reading-room is in active operation, and the Committee are engaged in making large additions to the library. The union of the Athenæum with the Watt Institute has now been determined, and the following resolutions have been adopted:—"1. That the libraries, reading-rooms, and apparatus of both Societies be available to the members of either Society 'under the ordinary rules,' on presenting their ticket of membership." "2. That the classes of both Societies be open to the members of either society on equal terms." "3. That those members of the Watt Institute who wish to attend the usual winter course of lectures and entertainments at the Athenæum, pay towards the lecture fund of the same one shilling per quarter during the lecture session, and if they pay two such quarters' contribution at the commencement of the session, they shall have the privilege of introducing a friend to the lectures." "4. That all public notices connected with the Institution shall be headed 'The United Societies, Athenæum and Watt Institute.'" "5. That the desired co-operation may be further promoted by instituting a Central Council, to consist of five members from each Society, two from each to form a quorum." The balance-sheet shows that the receipts have amounted to £349 1s. 9d., and that there is a balance in hand of £56 0s. 10d.

PATENT LAW AMENDMENT ACT.

APPLICATIONS FOR PATENTS AND PROTECTION ALLOWED.

[From Gazette, August 16th, 1861.]

Dated 31st July, 1861.

1907. J. Rylands, T. G. Rylands, and P. Rylands, Warrington—Imp. in joining wire for telegraphic conductors and other purposes.

Dated 1st August, 1861.

1915. J. Cook, East India-road, Poplar—Imp. in smoke-consuming furnaces.

Dated 3rd August, 1861.

1931. J. Henderson and J. Broadley, Salford, near Bradford—Imp. in means or apparatus employed in weaving.

Dated 5th August, 1861.

1939. H. C. Meyer, Hoxton—Imp. in slide valves to regulate or stop the flow of water, steam, or other fluid.

Dated 6th August, 1861.

1951. J. Turner and R. B. Dunnett, Liverpool—Imp. in stamping, endorsing, and embossing machines.

1953. J. MacMorran, 33, Leicester-square—Imp. in the construction of machines for mincing meat and other substances.

1955. A. A. R. Darnoiseau, Paris—Imp. in apparatus for drawing blood or other fluids from the human or animal body.

1957. A. V. Newton, 66, Chancery-lane—Imp. in the construction of reversible seats. (A com.)

1959. F. Silveston, Coventry—Certain imp. in watches.

INVENTIONS WITH COMPLETE SPECIFICATIONS FILED.

1945. M. A. F. Mennons, 39, Rue de l'Ecliquier, Paris—Imp. in the grates of reverberatory and other metallurgic furnaces. (A com.)—5th August, 1861.

1547. M. A. F. Mennons, 39, Rue de l'Ecliquier, Paris—An improved odontalgic elixir. (A com.)—6th August, 1861.

1860. W. H. Richards, Newton, U.S.—A new and useful or improved combined knife, fork, and spoon, for camp or other purposes.—7th August, 1861.

[From Gazette, August 23rd, 1861.]

Dated 28th June, 1861.

1655. D. B. White, Newcastle-upon-Tyne—Imp. in the mechanical compression of various substances, and in apparatus employed therein.

Dated 11th July, 1861.

1748. J. Kidd, 289, Strand—Imp. in the manufacture, application, and combustion of gases, and in apparatus connected therewith.

1749. J. C. B. Salt, Birmingham—A new or improved manufacture of street plates, name plates, and other plates or surfaces having inscriptions or devices thereon.

Dated 13th July, 1861.

1765. L. George, Paris—Imp. in the method of soldering together two or more printing type letters to facilitate the work of the compositor, and in the arrangement of type cases for the same.

Dated 15th July, 1861.

1774. R. Taylor and T. Price, Bassaleg, Monmouthshire—Imp. in the manufacture of tin and terne plates.

Dated 17th July, 1861.

1801. Sir J. Hare, Knt., Harlelot Castle, Pas de Calais, France, and B. Russ, Russ-buildings, Frogmore-street, Bristol—Imp. in heating cylinder irons or heaters to be used for pressing the seams of garments, finishing of hats, or other purposes for which heated-irons are ordinarily used, and in apparatus connected therewith.

Dated 19th July, 1861.

1823. R. A. Brooman, 166, Fleet-street—An improved method of propelling ships and other vessels by means of superheated steam. (A com.)

Dated 25th July, 1861.

1864. F. D. Blyth, 113, Fenchurch-street—Imp. in gimblets, augers, and brace bits. (A com.)

Dated 26th July, 1861.

1876. E. Sang, 2, George-street, Edinburgh—An improved apparatus for indicating the direction of objects and measuring angles.

Dated 31st July, 1861.

1903. H. Potter, Manchester—Imp. in treating or preparing textile materials and fabrics.

Dated 1st August, 1861.

1908. H. J. Walduck, Manchester—Imp. in machinery and apparatus for retarding and stopping railway engines and carriages.

1912. H. Shaw, 40, Lower Ormond-quay, Dublin—Imp. in wet gas meters.

1916. M. Pratt, Fenton Potteries, Staffordshire—An improved mode of manufacturing candle moulds.

Dated 2nd August, 1861.

1918. J. Wright, 42, Bridge-street, Blackfriars—Imp. in machinery to be used in carding cotton and other textile substances. (A com.)

1920. F. W. Turner, Swansea—Imp. in apparatus for obtaining and applying the motive power of steam.

1922. W. E. Newton, 66, Chancery-lane—Improved machinery for cleaning rice, coffee, and other grains or seeds. (A com.)

Dated 3rd August, 1861.

1924. G. Bish, High-street, Stratford, and J. Dredge, 11, Adam-street, Adelphi—Imp. in forming bends and other forms or parts of non-metallic pipes and in machinery or apparatus employed for such purposes, part of which imps. are applicable also to the formation of bends or curves in some kinds of metallic pipes.

1926. J. Cross, Manchester—Imp. in fastenings for wearing apparel and in the application thereof.

1928. C. Schinz, Offenbourg, Grand Duchy of Baden—Imp. in glass furnaces.
 1930. P. Habert, Bar-le Duc, France—An improved circular loom for weaving cloths of all kinds either plain or ornamented.
 1934. A. Princé, 4, Rrafalgar-square, Charing-cross—Imp. in palate and tooth plates for dental purposes. (A. com.)

Dated 5th August, 1861.

1938. C. Burn, Delahay-street, Westminster—Imp. in the mode of fastening iron armour plates to ships' sides.
 1940. S. S. Fitch, 16, Upper Seymour-street, Portman-square—An improved chest expander.
 1942. J. Potter, Leeds—Certain imp. in the construction of straining pillars or posts for wire or other strained fencing, and in the apparatus to be adopted thereto for straining or tightening the wires or strands.
 1944. F. Seiler, Paris—An improved mode of overleaping differential levels, applicable to canals and to other purposes.

Dated 6th August, 1861.

1946. J. A. Petit, 17, Red Lion-square—Imp. in the manufacture of watches and clocks.
 1948. W. Galloway and J. Galloway, Manchester, and J. W. Wilson, Barnsley—Imp. in steam boilers and in apparatus connected therewith.
 1950. R. Wappenstein, Manchester—An improved cop tube and cover for rollers used in spinning, and in apparatus for putting the tubes on the spindles.
 1954. E. A. Cowper, Great George-street, Westminster—Imp. in protecting ships of war and land batteries from the effects of projectiles.
 1958. P. Spence, Newton Heath, near Manchester, and J. Mellor, Manchester—Imp. in separating copper from its ores.

Dated 7th August, 1861.

1961. D. Miles, Newport, Monmouthshire—Imp. in the construction of window sashes.
 1962. N. A. Lesueur, Paris, Boulevard des Amandiers, No. 78—A new system of covering for houses and other buildings and coverings.
 1963. E. T. Hughes, 123, Chancery-lane—An improved wheel-barrow wagon. (A. com.)
 1965. W. R. Rogers, Gray's-inn-road—Improved machinery to be employed in the application of dowels to woodwork.
 1966. T. G. Webb, Manchester—Imp. in the manufacture of articles of glass.

Dated 8th August, 1861.

1969. N. D. P. Maillard, Dublin—Imp. in self-acting and inextinguishable hydraulic and atmospheric motive-power engines.
 1970. J. Gedge, 11, Wellington-street, Strand—An improved apparatus for beating or threshing grain. (A. com.)
 1971. J. Coldwell and W. Coldwell, Sheffield—Imp. in the manufacture of sheep shears.
 1972. R. Jukes, Sheffield—Imp. in puddling furnaces.
 1973. W. S. Hogg, Rotherhithe—Imp. in the construction of doors, gates, and shutters, principally applicable for fire-proof buildings.
 1976. A. V. Newton, 66, Chancery-lane—Imp. in the construction of sewing machines. (A. com.)
 1977. A. V. Newton, 66, Chancery-lane—An imp. in single thread sewing machines. (A. com.)
 1978. L. Le Paige, Merssem, near Antwerp—Imp. in treating fatty and oily matters obtained from wash waters to deprive them of their smell.
 1979. H. Kinsey, Nottingham—Imp. in steam engines and boilers.

Dated 9th August, 1861.

1980. G. Haycraft, 23, Lombard-street—Imp. in powder flasks.
 1982. C. P. Moody, Corton Denham, Somersetshire—Imp. in the construction of gates.
 1983. J. Hemingway, Robert-town, Yorkshire—Imp. in machinery or apparatus for working coal, ironstone, or other minerals.
 1985. J. Griffin and C. Griffin, Walsall—New or improved machinery for the manufacture or cutting of corks and bungs.
 1986. H. Chatwin, Birmingham—Certain imp. in the manufacture of card, needle, pin, and other cases, and in the application to such articles of a new branch of ornamental art not hitherto applied to such goods.
 1987. A. V. Newton, 66, Chancery-lane—Improved machinery for sewing. (A. com.)
 1988. C. Lee and T. K. Mace, Birmingham—An imp. or imps. in backing or covering the backs or foundations of raised and cut pile fabrics.
 1989. J. Gray, T. Kershaw, B. Crowther, and A. Dean, Manchester—Imp. in mules for spinning.
 1990. R. A. Godwin, 151, Newport-street, Paradise-street, Lambeth—Imp. in pumps.

Dated 10th August, 1861.

1922. G. H. Birkbeck, 34, Southampton-buildings, Chancery-lane—Imp. in the construction of tents for military and other purposes. (A. com.)
 1994. H. Wilde, Manchester—Imp. in electro-magnetic telegraphs, and in apparatus connected therewith.
 1996. T. Schneider, 74, Horseferry-road, Westminster, and C. E. Crawley, 17, Gracechurch-street—Imp. in inlaying wood, ivory, and other substances, and in apparatus employed therein.
 1997. A. Barclay, Kilmarnock—Imp. in machinery or apparatus for raising, lowering, or moving heavy bodies.

1998. M. Wiggzell, Friars-green, Exeter—A machine or apparatus for twisting ordinary nails and all other similar driving articles of a parallel or tapered form, and of a plain, fluted, grooved, or indented section throughout or in part.

Dated 12th August, 1861.

2000. H. Greaves, 22, Abingdon-street, Westminster—Imp. in apparatus to be employed for the water conveyance and delivery of coals and other materials.
 2002. W. E. Gedge, 11, Wellington-street, Strand—Improved breaking apparatus for railway and other vehicles. (A. com.)

Dated 13th August, 1861.

2007. J. Humpage, Balsall Heath, King's Norton, Worcestershire—A new or improved reaping and mowing machine.
 2009. J. Jacob, Golden-square—Imp. in producing on porcelain and other ceramic products, on glass, venedien enamels, and on metallic surfaces, designs in colours, and in gold, silver, and other metals. (A. com.)
 2011. S. Andrew and S. Hornby, Staleybridge, Lancashire—Imp. in machinery or apparatus for opening, cleaning, and preparing cotton and other fibrous materials.
 2013. C. Binks, Gray's-inn—Improved methods of and apparatuses for treating lined and other oils and fats.
 2015. B. Cooper, Frome—Improved machinery for spinning and doubling fibrous materials.

Dated 14th August, 1861.

2017. E. A. Rippingille, Prestolee Farnsworth, near Manchester—Certain imp. in steam engines.
 2019. W. E. Gedge, 11, Wellington-street, Strand—Imp. in pressing boards for pressing cloth and other fabrics. (A. com.)
 2023. R. A. Brooman, 166, Fleet-street—Imp. in coating wire with copper, silver, gold, or other metal or alloy in order to prevent oxidation. (A. com.)
 2025. T. Silvester, West Bromwich, Staffordshire—Imp. in spring balances or weighing apparatus.
 2027. J. Billing, 12, Abingdon-street, Westminster—Imp. in stoves.

PATENTS SEALED.

[From Gazette, August 23rd, 1861.]

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| August 22nd. | 529. M. Henry. |
| 463. G. Ward and J. Gaskell. | 537. C. Stevens. |
| 464. A. Duriez and S. Elmsley. | 541. S. Botturi. |
| 465. F. E. Mas-ey. | 564. W. E. Newton. |
| 469. L. Pohl. | 579. T. W. Evans, M.D. |
| 470. T. Spencer. | 587. R. Leake, jun., and W. Shields. |
| 471. J. Robinson. | 683. S. J. Wilkinson and G. F. L. Meakin. |
| 477. W. F. Henson. | 691. J. Chalmers. |
| 478. J. Leeming. | 692. G. Wilson. |
| 479. W. Dray. | 769. J. G. Willans. |
| 480. E. F. Barnes. | 833. W. E. Newton. |
| 482. G. Clark. | 1003. W. Clark. |
| 483. L. A. Bigelow. | 1058. J. Watkins. |
| 490. G. Davies. | 1123. W. Rowan. |
| 492. W. H. James. | 1128. E. P. Smith. |
| 493. R. A. Brooman. | 1144. W. E. Newton. |
| 506. J. Taylor, jun. | 1165. J. Fitter. |
| 509. W. Weallens. | 1221. R. Hornsby, jun. |
| 511. E. Brasier. | 1282. J. Sidebottom. |
| 512. J. Bayley, J. Quarumby, and E. Burns. | 1426. G. Baker. |
| 514. R. Laing. | 1538. S. Grant. |
| 518. C. Beslay. | 1567. W. E. Newton. |
| 520. W. Rose and T. Crowder. | |

PATENTS ON WHICH THE STAMP DUTY OF £50 HAS BEEN PAID.

[From Gazette, August 23rd, 1861.]

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| August 20th. | August 21st. |
| 1803. M. Benson. | 1909. F. Puls. |
| 1914. A. Royle. | 1910. F. Puls. |

[From Gazette, August 27th, 1861.]

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| August 23rd. | August 24th. |
| 1242. W. Esson. | 1954. J. D. Brabazon. |
| 1945. A. V. Newton. | 1987. W. Warne. |
| 2175. J. Morrison. | 2001. G. T. Bousfield. |
| August 24th. | 2076. R. Frost and A. Rigg. |
| 1950. J. Ireland. | |

PATENTS ON WHICH THE STAMP DUTY OF £100 HAS BEEN PAID.

[From Gazette, August 23rd, 1861.]

August 21st.
1872. John Gedge.

[From Gazette, August 27th, 1861.]

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|------------------|---------------------------------|
| August 22nd. | August 24th. |
| 1851. J. Norton. | 1865. J. H. Tuck. |
| | 1173. W. Smith and T. Phillips. |